

DATA DOCUMENT GENERATOR

David J. White

ABSTRACT OF THE DISCLOSURE

A data management system for generating customized versions of data documents. Initially the document is stored as in the form of raw data, which is subsequently parsed into an internal representation of the document. In one embodiment, raw data is stored in XML form and is parsed by an XML parser. Upon the initial request for a customized version of the document, a sequence of transforms is applied to the internal representation and to subsequently transformed documents in order to create hierarchical, customized document levels. In one embodiment, transforms are implemented as either XSL stylesheets, although Java classes may also be employed. The document versions are written to cache, and subsequent requests for existing versions of the document are referred to cache. In the event that any document dependencies change, a cached version will be denoted invalid, and subsequent requests will result in the re-generation of a customized version. The data management system is implemented in the form of a document manager, a database that includes a document table and a transform table. The document manager reads raw documents from a raw-document database and reads transforms from a transform database. Requested customized documents are written to cache.